

CERN School of Computing 2019



Sunday, September 15, 2019 - Saturday, September 28, 2019

Babeş-Bolyai University

Academic programme

The complete programme will offer more than 55 hours of lectures and hands-on exercises. The programme is organized over three distinct tracks: Physics Computing, Software Engineering, and Data Technologies.

Physics Computing

Introduction to Physics Computing

by Arnulf Quadt (University of Göttingen)

2h lectures

Data Analysis

by Ivica Puljak (University of Split)

4h lectures + 3h exercises

Machine Learning

by Anna Scaife (University of Manchester)

3h lectures + 3h exercises

Data Science tools for interactive exploration

by Bob Jacobsen (UC Berkeley)

1h lecture

Software Engineering

Software Design in the Many-Cores Era

by Enric Tejedor (CERN) and Andrei Gheata (CERN)

4h lectures + 3h exercises

Tools and Techniques

by Bob Jacobsen (UC Berkeley)

2h lectures + 5h exercises

Creating Secure Software

by Sebastian Lopienski (CERN)

3h lectures + 3h exercises

Data Technologies

Data Management

by Alberto Pace (CERN)

5h lectures

Data and Storage Technologies

by Andreas J. Peters (CERN)

1h lecture + 4h exercises

Data Visualization

by Eamonn Maguire (Pictet Asset Management)

2h lectures + 2h exercises

Networking Fundamentals

by Francois Fluckiger (CERN)

2h lectures

Additional lectures

On top of the academic programme of the School, there are four guest lectures scheduled:

Computational Science - The Third Pillar of Science?

by Emil Slusanschi (Politehnica University of Bucharest)

Physics-inspired computer algorithms

by Liliana Teodorescu (Brunel University)

Using MPI and OpenMP in building High Performance Applications

by Virginia Niculescu (University Babes-Bolyai)

Industrial applications of data science

by Cosmin Lazar (Bosch)

There will be also a session of short student presentations.

Finally, two special evening talks will be given by CSC lecturers:

When Internet history meets philosophy

by Francois Fluckiger (CERN)

Future of the Universe and of Humanity

by Ivica Puljak (University of Split)